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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/893,735	06/29/2001	Olli Piirainen	P 281483 2010736US/BR/HER	3326	
909 / 73	590 11/18/2004		EXAMINER		
PILLSBURY WINTHROP, LLP P.O. BOX 10500			ZHENG, EVA Y		
MCLEAN, VA			ART UNIT	PAPER NUMBER	
,			2634		
			DATE MAILED: 11/18/2004	DATE MAILED: 11/18/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/893,735	PIIRAINEN, OLLI			
		Examiner	Art Unit			
		Eva Yi Zheng	2634			
Desired	The MAILING DATE of this communication ap	pears on the cover sheet with the	correspondence address			
	ORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE <u>2</u> MONTH	I(S) FROM			
- Exter after - If the - If NO - Failui Any r	MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repperiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron e. cause the application to become ABANDON	nys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133)			
Status						
1)🖂	Responsive to communication(s) filed on 29 J	une 2001.				
	This action is FINAL . 2b) This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4) 🛛	Claim(s) 1-12 is/are pending in the application	ı .				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
) ☐ Claim(s) is/are allowed.) ☐ Claim(s) is/are rejected.) ☐ Claim(s) <u>1-12</u> is/are objected to.					
6)□						
7)⊠						
8)□	Claim(s) are subject to restriction and/o	or election requirement.				
Applicati	on Papers					
9)[] -	The specification is objected to by the Examine	er.				
10) 🗌 -	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)[_]	The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	e Action or form PTO-152.			
Priority u	nder 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:		a)-(d) or (f).			
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority document					
	 Copies of the certified copies of the prio application from the International Burea 		ed in this National Stage			
* S	ee the attached detailed Office action for a list		ed.			
Attachment	(s)					
1) 🛛 Notice	e of References Cited (PTO-892)	4) Interview Summary				
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	Date			
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date <u>8/28/01</u> .	6) Other:	Patent Application (PTO-152)			

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DETAILED ACTION

Claim Objections

1. Claims 1, 4, 5, and 10-12 are objected to because of the following informalities:

a) Regarding claim 1:

On line 5, please change phrase: "the symbols" to -- symbols --.

b) Regarding claim 4:

On line 5, please change phrase: "the symbols" to -- symbols --.

On line 9, please change phrase: "time-space block" to --space-time block

--.

On line 23, please change phrase: "the retransmitted blocks" to -- retransmitted blocks --

c) Regarding claim 5:

On line 3, please change phrase: "the symbols" to -- symbols --.

On line 16, please change phrase: "the format" to -- a format--.

On line 18, please change phrase: "the retransmitted blocks" to -- retransmitted blocks --.

On line 18-19, please change phrase: "the coding" to --coding--.

d) Regarding claim 10,

On line 3, please change phrase: "the TDMA" to -- TDMA --.

On line 3, please change phrase: "the multiple access method" to -- a multiple access method --.

e) Regarding claim 11,

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On line 3, please change phrase: "the CDMA" to -- CDMA --.

On line 3, please change phrase: "the multiple access method" to -- a multiple access method --.

f) Regarding claim 12,

On line 3, please change phrase: "the OFDM" to -- OFDM --.

On line 3, please change phrase: "the multiple access method" to -- a multiple access method --.

Appropriate correction is required.

Allowable Subject Matter

- 2. Claims 1, 4, 5, and 10-12 would be allowable if rewritten to overcome the objections, set forth in this Office action.
- 3. Claims 2, 3, 6-9 are objected as dependent upon objected independent claim 1 and 5.
- 4. The following is a statement of reasons for the indication of allowable subject matter:

None of the prior art teaches or suggests data transmission and retransmission system between two transceivers, comprising more than one antenna for transmitting and receiving data, dividing symbols into blocks, transmitting one block per each antenna from the first transceiver to the second transceiver, acknowledge if the blocks has been transmitted successfully, if not, storing the blocks in memory of the second transceiver, retransmitting the same blocks in the same format from the first transceiver.

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combining the retransmitted blocks and the blocks in the memory of the second

transceiver to form space-time block coding.

Conclusion

5. This application is in condition for allowance except for the following formal

matters:

See description above.

Prosecution on the merits is closed in accordance with the practice under Ex

parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**

MONTHS from the mailing date of this letter.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Eva Yi Zheng whose telephone number is (571) 272-

3049. The examiner can normally be reached on 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone number

for the organization where this application or proceeding is assigned is 703-879-9306.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Eva Yi Zheng Examiner Art Unit 2634

November 3, 2004

SHUWANG LIU PRIMARY EXAMMER

Showing to